(a) an ADNF I polypeptide having the following amino acid sequence:

$(R^1)_x$-Ser-Ala-Leu-Leu-Arg-Ser-Ile-Pro-Ala-$(R^2)_y$ (SEQ ID NO:3);

(b) an ADNF III polypeptide having the following amino acid sequence:

$(R^3)_w$-Asn-Ala-Pro-Val-Ser-Ile-Pro-Gln-$(R^4)_z$ (SEQ ID NO:4);

(c) a mixture of the ADNF I polypeptide of part (a) and the ADNF III polypeptide of part (b);

wherein R^1, R^2, R^3, and R^4 are independently selected and are an amino acid sequence comprising from 1 to about 40 amino acids wherein each amino acid is independently selected; and

x, y, w, and z are independently selected and are equal to zero or one;

(d) a full length ADNF I polypeptide which comprises Ser-Ala-Leu-Leu-Arg-Ser-Ile-Pro-Ala;

(e) a full length ADNF III polypeptide which comprises Asn-Ala-Pro-Val-Ser-Ile-Pro-Gln; and

(f) a mixture of a full length ADNF I polypeptide of part (d) and a full length ADNF III polypeptide of part (e).

2. (Amended) The method of claim 1, wherein the ADNF polypeptide is a member selected from the group consisting of the full length ADNF I polypeptide, the full length ADNF III polypeptide, and the mixture of the full length ADNF I polypeptide and the full length ADNF III polypeptide.

3. (Amended) The method of claim 1, wherein the ADNF polypeptide is a member selected from the group consisting of:

(a) the ADNF I polypeptide having the following amino acid sequence:

$(R^1)_x$-Ser-Ala-Leu-Leu-Arg-Ser-Ile-Pro-Ala-$(R^2)_y$ (SEQ ID NO:3);

(b) the ADNF III polypeptide having the following amino acid sequence:

$(R^3)_w$-Asn-Ala-Pro-Val-Ser-Ile-Pro-Gln-$(R^4)_z$ (SEQ ID NO:4); and

(c) the mixture of the ADNF I polypeptide of part (a) and the ADNF III polypeptide of part (b);

wherein R^1, R^2, R^3, and R^4 are independently selected and are an amino acid sequence comprising from 1 to about 40 amino acids wherein each amino acid is independently selected; and

x, y, w, and z are independently selected and are equal to zero or one.